

WHAT IS CLAIMED IS:

1. An electronic musical score device comprising:

an audio unit for receiving a sound signal;

an audio recognition unit for performing an audio frequency
5 recognition process to the sound signal to obtain a recognized musical
note;

a microprocessor unit for receiving musical score data with a
plurality of standard musical notes and at least one recognized musical
note and comparing the recognized musical note with the plurality of
10 standard musical notes to find a corresponding position for the recognized
musical note in the music score data, wherein the music score data is
capable of segmentation into at least one page, each page having a
plurality of measures and each measure has at least one standard musical
note; and

15 a display unit for displaying at least one page of the musical score
data;

wherein when the recognized musical note is located at a
predetermined position in at least one page of the music score data, the
microprocessor unit displays another page of the musical score data.

20 2. The electronic musical score device as claimed in claim 1 further
comprising a storage unit for storing the music score data.

3. The electronic musical score device as claimed in claim 1, wherein the predetermined position is the last standard musical note of at least one musical score data displayed by the displaying unit.

4. The electronic music score device as claimed in claim 1, wherein
5 the predetermined position is the last measure of at least one musical score data displayed by the display unit.

5. The electronic musical score device as claimed in claim 1, wherein the audio recognition unit has an analog to digital converter and a frequency transformer.

10 6. The electronic musical score device as claimed in claim 1 further comprising a storage unit and a speaker unit, the storage unit being used for storing the recognized musical note, the microprocessor unit controlling the speaker unit to play the recognized musical note stored by the storage unit.

7. The electronic musical score device as claimed in claim 6 further
15 comprising a metronome for generating a tempo, the microprocessor unit working with the metronome to play the recognized musical note stored by the storing unit via the speaker unit.

8. The electronic musical score device as claimed in claim 6 further comprising a tuner for providing a correct tune to compare to a played tune
20 to obtain an error value and storing the error value in the storage unit and displaying the error value on the displaying unit so that a user can tune during a performance.

9. The electronic musical score device as claimed in claim 2, wherein the storage unit stores at least one predetermined ranking value, and the microprocessor unit compares the least one predetermined ranking value to the recognized musical note to generate a ranking result.

5 10. The electronic music score device as claimed in claim 9, wherein the at least one predetermined ranking value is a note or tempo of the musical score.

11. The electronic musical score device as claimed in claim 2, wherein the storage unit stores dynamic symbols for the electronic musical
10 score which are compared with a volume change of the recognized musical scores.

12. An electronic music score device comprising:

an audio unit for receiving a sound signal;

an audio recognition unit for performing an audio frequency
15 recognition process to the sound signal to obtain a recognized musical note ;

a page changing unit for generating a page changing control signal;

a storage unit for storing musical score data and the recognized
20 musical note, the musical score data capable of being segmented into at least one page, each page having a plurality of measures and each measure having at least one standard musical note;

a microprocessor unit; and

a display unit for displaying at least one page of the musical score data;

wherein the microprocessor receives the page changing control signal
5 and drives the display unit to display another page of the musical score data.

13. The electronic musical score device as claimed in claim 12,
wherein the page changing unit is at least one touch-control unit for
generating the page changing control signal when touched by a user so that
the microprocessor drives the display unit to display another page of the
10 musical score data.

14. The electronic musical score device as claimed in claim 12,
wherein the page changing unit has at least one light sensor which is used
for generating the page changing control signal when the user blocks light
so that the microprocessor drives the display unit to display another page of
15 the musical score data.

15. The electronic musical score device as claimed in claim 12,
wherein the audio recognition unit has an analog to digital unit and a
frequency transformer.

16. The electronic music score device as claimed in claim 12 further
20 comprising a speaker unit, the microprocessor unit controlling the speaker
unit to play the recognized musical note stored by the storage unit.

17. The electronic musical score device as claimed in claim 16 further comprising a metronome for generating a tempo, the microprocessor unit working with the storage unit to play the recognized musical note stored by the storage unit via the metronome unit.

5 18. The electronic musical score device as claimed in claim 12, wherein the storage unit stores at least one predetermined ranking value, and the microprocessor unit compares the at least one predetermined ranking value to the recognized musical note to generate a ranking result.

10 19. The electronic musical score device as claimed in claim 18, wherein the at least one predetermined ranking value is a note or tempo of the musical score.